# IM Series

## *2-port Gigabit Ethernet and 4-port fast Ethernet interface modules for EDS-728/828 series Ethernet switches*

## Specifications

### Gigabit Ethernet Interface Modules, IM-2G Series

IM-2GTX

IM-2GSFP

#### Interface

**Fiber Ports:** 1000BaseSFP slot

**RJ45 Ports:** 10/100/1000BaseT(X) auto negotiation speed and auto MDI/MDI-X connection

**LED Indicators:** Port status

Note: Please see page 3-45 for product information related to the SFP-1G series of Gigabit Ethernet SFP modules.

#### Power Requirements

**Power Consumption:**
IM-2GTX: 2.96 W
IM-2GSFP: 3.04 W

#### Physical Characteristics

**Dimensions:** 24 x 65.9 x 101.1 mm (0.94 x 2.59 x 3.98 in)

**Weight:**
IM-2GTX: 150 g
IM-2GSFP: 148 g

### Fast Ethernet Interface Modules, IM Series

IM-4TX

IM-2MSC/2TX
IM-2SSC/2TX

IM-2MST/2TX

IM-1LSC/3TX

IM-4MSC
IM-4SSC

IM-4MST

#### Interface

**Fiber Ports:** 100BaseFX ports (SC/ST connector)

**RJ45 Ports:** 10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection

**LED Indicators:** PWR, P1, P2, P3, P4 port status

#### Optical Fiber

| | 100BaseFX | | |
|---|---|---|---|
| | Multi Mode | Single Mode | Single Mode, 80 km |
| Wavelength | 1300 nm | 1310 nm | 1550 nm |
| Max. TX | -10 dBm | 0 dBm | 0 dBm |
| Min. TX | -20 dBm | -5 dBm | -5 dBm |
| RX Sensitivity | -32 dBm | -34 dBm | -34 dBm |
| Link Budget | 12 dB | 29 dB | 29 dB |
| Typical Distance | 5 km [a]<br>4 km [b] | 40 km [c] | 80 km [d] |
| Saturation | -6 dBm | -3 dBm | -3 dBm |

a. 50/125 µm, 800 MHz*km fiber optic cable
b. 62.5/125 µm, 500 MHz*km fiber optic cable
c. 9/125 µm single-mode fiber optic cable
d. 9/125 µm single-mode fiber optic cable (80 km)

#### Power Requirements

**Power Consumption:**
IM-4TX: 1.52 W
IM-2MSC/2TX: 2.43 W
IM-2MST/2TX: 2.43 W
IM-2SSC/2TX: 2.43 W
IM-1LSC/3TX: 2.5 W
IM-4MSC: 6.6 W
IM-4MST: 6.6 W
IM-4SSC: 6.6 W

#### Physical Characteristics

**Housing:** IP30 protection

**Dimensions:** 40 x 127.8 x 100 mm (1.57 x 5.03 x 3.94 in)

**Weight:**
IM-4TX: 215 g
IM-2MSC/2TX: 245 g
IM-2MST/2TX: 250 g
IM-2SSC/2TX: 245 g
IM-1LSC/3TX: 235 g
IM-4MSC: 250 g
IM-4MST: 270 g
IM-4SSC: 270 g

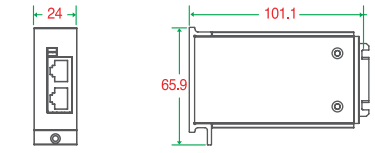
#### MTBF (meantime between failures)

**Time:** 620,000 hrs

**Database:** MIL-HDBK-217F, GB 25°C

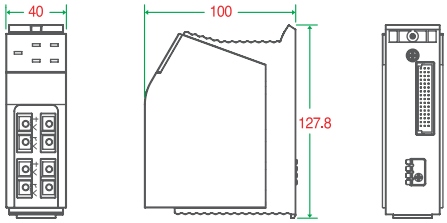
## Dimensions (unit = mm)

### Gigabit Ethernet Interface Modules




Front View Side View

### Fast Ethernet Interface Modules




Front View Side View Rear View

## Ordering Information

| Available Models | Port Interface | | | | | | |
|---|---|---|---|---|---|---|---|
| | Gigabit Ethernet | | Fast Ethernet | | | | |
| | | | | 100BaseFX | | | |
| | 10/100/1000BaseT(X) | 1000BaseSFP* | 10/100BaseT(X) | Multi-mode, SC Connector | Multi-mode, ST Connector | Single-mode, SC Connector | Single-mode, SC Connector, 80 km |
| **IM-2G Series** | | | | | | | |
| IM-2GTX | 2 | --- | --- | --- | --- | --- | --- |
| IM-2GSFP | --- | 2 | --- | --- | --- | --- | --- |
| **IM Series** | | | | | | | |
| IM-4TX | --- | --- | 4 | --- | --- | --- | --- |
| IM-4MSC | --- | --- | --- | 4 | --- | --- | --- |
| IM-4MST | --- | --- | --- | --- | 4 | --- | --- |
| IM-2MSC/2TX | --- | --- | 2 | 2 | --- | --- | --- |
| IM-2MST/2TX | --- | --- | 2 | --- | 2 | --- | --- |
| IM-4SSC | --- | --- | --- | --- | --- | 4 | --- |
| IM-2SSC/2TX | --- | --- | 2 | --- | --- | 2 | --- |
| IM-1LSC/3TX | --- | --- | 3 | --- | --- | --- | 1 |

* Please see page 3-45 for product information related to the SFP-1G series Gigabit Ethernet SFP modules.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